

Appl. No. 10/059,969
Amdt. dated May 20, 2004
Reply to the Office Action of January 20, 2004

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Please amend Claims 1-4, and cancel Claims 27-30 without prejudice, as follows.

1. (Currently Amended) A liquid crystal cell comprising:

a pair of substrates spaced adjacent to each other so as to create a cell gap, each substrate having a surface thereon;

a plurality of alignment domains disposed on the surface of at least one of the substrates, each alignment domain having an alignment direction; and

a liquid crystal medium disposed in the cell gap, wherein the liquid crystal medium assumes a twisted nematic liquid crystal arrangement that extends between the pair of substrates at a twist angle that is in the range from about greater than 70 degrees to less than 90 degrees, and the alignment direction of at least one of the alignment domains is different than the alignment direction of at least one other of the alignment domains.

2. (Currently Amended) The liquid crystal cell of claim 1, wherein the twist angle is a low twist angle in the range from about greater than 70 degrees to 85 degrees to stabilize the liquid crystal medium disposed in the cell gap, particularly at zero and high fields. ~~about 45 to about 85~~ degrees.

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3. (Currently Amended) The liquid crystal cell of claim 1, wherein the twist angle is different for each of the plurality of alignment domains within the liquid crystal cell. ~~is about 60 to about 85 degrees.~~

4. (Currently Amended) The liquid crystal cell of claim 1, wherein the twist angle is about greater than 70 to about 80 degrees.

5. (Original) The liquid crystal cell of claim 1, wherein the alignment direction of each of the alignment domains is different than the alignment direction of each of the other alignment domains.

6. (Original) The liquid crystal cell of claim 1, wherein the plurality of alignment domains is four alignment domains.

7. (Original) The liquid crystal cell of claim 6, wherein the alignment direction of each of the four alignment domains is different than the alignment direction of each of the other three alignment domains.

8. (Original) The liquid crystal cell of claim 1, wherein the surface of at least one of the substrates is coated with an alignment film.

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9. (Original) The liquid crystal cell of claim 1, wherein the alignment domains on at least one substrate are arranged in juxtaposition.

10. (Original) The liquid crystal cell of claim 9, wherein the alignment domains arranged in juxtaposition alternate between right-hand rotation and left-hand rotation.

11. (Original) The liquid crystal cell of claim 1, wherein each substrate has a plurality of alignment domains, and the pair of substrates are spaced adjacent to each other such that the plurality of alignment domains on each of the substrates is offset from the plurality of alignment domains on the opposing substrate, whereby a liquid crystal cell having at least four alignment domains is formed.

12. (Original) The liquid crystal cell of claim 1, wherein each alignment domain has either twist distortion or splay distortion.

13. (Original) The liquid crystal cell of claim 12, wherein the alignment domains having twist distortion are arranged in juxtaposition, and the alignment domains having splay distortion are arranged in juxtaposition.

14. (Original) A liquid crystal display comprised of at least one liquid crystal cell of claim 1.

Claims 15-30 (Cancelled)